

# Energy Solutions Career Pathway

MISSOURI ECONOMIC RESEARCH & INFORMATION CENTER  
MISSOURI DEPARTMENT OF HIGHER EDUCATION  
& WORKFORCE DEVELOPMENT  
JANUARY 2025

## What are Career Pathways?

Career Pathways are groups of occupations within a career field. Occupations within a pathway share common skills, knowledge, and interests. The pathways use industry-recognized credentials and are examples of how different levels of training or education can help provide opportunities for career advancement.

### Missouri Numbers:



**7,794 Employers**



**122,193 Workers**



**\$82,379 Average Wage**

### Why Have a Career in Energy Solutions?

The Energy Solutions industry provides long-term and low-impact solutions to the energy demands of Missouri. The Energy Solutions industry represents 5 percent of total private sector employment, employing 122,193 workers in almost 7,800 establishments in 2023. Employment in this industry has been steadily growing, increasing an average of 1.8 percent per year from 2018 to 2023. Missouri has high employment concentrations in Energy Solutions, particularly in *HVAC Commercial Refrigeration Equipment Manufacturing* and *Other Electrical Equipment and Component Manufacturing*. Average annual wages in this industry are \$82,379, much higher than the state average of \$62,563 for private industries. Many occupations common in this industry, such as engineers and skilled production workers, have high wages.

With new technology emerging, the Energy Solutions industry is constantly working to meet the energy needs of the present and future. There are many opportunities for a meaningful and rewarding career with good pay and advancement in Production and Engineering/Quality Control.

### Know the Basics

The Energy Solutions industry deals heavily with engineering, research, and production, so knowledge of mathematics, science, and the ability to use critical and analytical thinking are important. Safety and quality control issues are also critical in this industry, along with knowledge of environmental laws and regulations. Soft skills, such as interpersonal skills, professionalism, and dependability, are important in all industries and occupations, including Energy Solutions.

### Skills needed for Success:

The Energy Solutions industry has industry-wide technical competencies that represent the knowledge and skills needed to be successful in this industry. Knowledge of nuclear and non nuclear energy generation, as well as distribution are among the key skills needed for success.

### Who's Hiring in Missouri?

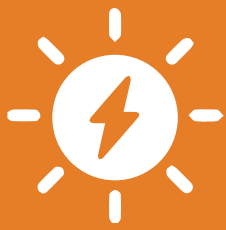
**Burns & McDonald**

**Honeywell**

**Olsson**

**HNTB**

**Black & Veatch**



## Engineering/ Quality Control

## Production

### Now

#### Short-Term On-the-Job Training

See Next and Later categories for job opportunities in Engineering and Quality Control

**Helpers-Production Workers**  
Entry: \$33,390 Average: \$39,470

**Certificates:** Forklift Operation

### Next

#### Certificate, Associate Degree, Apprenticeship, Moderate- to Long-Term On-the-Job Training

**Architectural & Civil Drafters**  
Entry: \$48,580 Average: \$62,910

**Mechanical Drafters**  
Entry: \$50,780 Average: \$66,020

**Electrical Engineering Technicians**  
Entry: \$56,560 Average: \$72,110

**First-Line Supervisor of Production  
& Operating Workers**  
Entry: \$49,940 Average: \$78,620

**Welders**  
Entry: \$39,620 Average: \$49,820

**Power Plant Operators**  
Entry: \$54,080 Average: \$84,600

**Degrees:** Engineering, Drafting and Design  
**Certificates:** CAD Certification, Certified Quality Auditor

**Certificates:** Forklift Operation, Commercial Driver's License (CDL), Welding, Occupational Safety & Health Administration (OSHA)

### Later

#### Bachelor's Degree or Advanced Degree

**Civil Engineers**  
Entry: \$74,940 Average: \$93,110

**Architectural & Engineering Managers**  
Entry: \$122,940 Average: \$152,420

**Electrical Engineers**  
Entry: \$79,510 Average: \$103,690

**Industrial Production Managers**  
Entry: \$80,910 Average: \$117,000

**Degrees:** Engineering

**Degrees:** Engineering, Business Administration & Management

#### Sources:

Lightcast™

Employment and Training Administration, Competency Model Clearinghouse  
2023 Occupational Employment and Wage Statistics, U.S. Bureau of Labor Statistics  
Quarterly Census of Employment and Wages, U.S. Bureau of Labor Statistics  
Top employers data is based on 2024 online job ads



This workforce product was funded by a grant awarded by the U.S. Department of Labor, Employment and Training Administration. The product was created by the recipient and does not necessarily reflect the official position of the U.S. Department of Labor. The U.S. Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, the accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This product is copyrighted by the institution that created it. Internal use by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner.